

EXECUTIVE SUMMARY

Prepared February 5, 2001

Mine Name: B & C Limestone Quarry
Operator: Bryce Haas
331 East 200 South
Lindon, Utah 84042
Telephone: (801) 796-6130
Contact Person: Bryce Haas
Life of Mine: 10 years

I.D. No: M/039/013
County: Sanpete
New/Existing: Existing SMO expanding to
LMO status
Mineral Ownership: SITLA
Surface Ownership: SITLA
Lease No.(s): 48313 - MP
Permit Term: Life of mine

Legal Description: South ½ of the Southwest 1/4 of Section 32; Township 18 South Range 1 East; and lot 4 of the NW1/4 of Section 5, T19S, R1E SLBM

Mineral(s) to be Mined: Limestone

Mining Methods: Open pit quarry

Acres to be Disturbed: 9.7 acres

Present Land Use: Grazing and Wildlife Habitat

Postmining Land Use: Grazing and Wildlife Habitat

Variances from Reclamation Standards (Rule R647) Granted: No variances apply

Soils and Geology:

Soil Description: Soils in the project area are classified as Amtoft flaggy loam, of the Amtoft Series. Soil depth ranges from 8 to 17 inches over limestone. An average of one foot of topsoil will be salvaged.

pH: 7.8

Special Handling Problems: None anticipated.

Geology Description: Medium bedded, freshwater dolomitic limestones of the Green River Formation. This formation is from the late tertiary/early quaternary period. The limestone formation is overlain by approximately 12 feet of overburden material within the project area.

Hydrology:

Ground Water Description: Unknown, there are no wells in the area and no ground water has been encountered during current operations.

Surface Water Description: There is no surface water or drainages within or adjacent to the permit area.

Water Monitoring Plan: None required.

Ecology:

Vegetation Type(s); Dominant Species: The quarry is located within the black sage/desert shrub community. Dominant species include black sagebrush, shadscale, carpet phlox, indian ricegrass and squirreltail.

Percent Surrounding Vegetative Cover: 27 % ground cover as determined by use of 40 line transects.

Wildlife Concerns: The quarry is located on deer winter range. Up to 9.7 acres will be disturbed by this operation. The revegetation plan (seed mix) was developed to enhance forage values for deer.

Surface Facilities: There are no permanent structures associated with this operation. Temporary facilities include a rock tumbler, rock guillotine, fuel storage (with secondary containment), portable toilet, moveable shed, and semi trailers. The permit area is not fenced, however, access to the area is fenced and gated (along highway #28 approximately one mile from the quarry).

Mining and Reclamation Plan Summary:

During Operations:

After salvaging available topsoil, about 12 feet of overburden is removed to expose limestone seams. Overburden is used to fill in pit as the pit advances. Stone is removed by an excavator and loaded onto trucks, then hauled to a work area. Stone is then cut with a guillotine, hand split and/or tumbled for use as building stone or landscape rock. Finished rock is stacked on pallets for shipping. Topsoil is stockpiled for use in reclamation, overburden is used for concurrent reclamation on areas that have been quarried.

After Operations:

All temporary facilities will be removed. The final quarry pit will be back-filled with fines materials and overburden and graded to a 3h:1v slope. Slopes will be covered with one foot of topsoil, amended with composted manure and seeded. The seed mix was designed to enhance forage values for wildlife. The pre-existing access road into the area will remain.

Surety:

Amount: \$12,500

Form: _____

Renewable Term: 2006 dollars